#### PATENT COOPERATION TREATY

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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		EOD EIDTHED ACT	ON	Saa Form BCT/IDE A ///16
030412WO		FOR FURTHER ACT	ON	See Form PCT/IPEA/416
International application No.		International filing date (da	y/month/year)	Priority date (day/month/year)
PCT/US04/38198		15 November 2004 (15.11.		01 December 2003 (01.12.2003)
International Paten	t Classification (IPC)	or national classification and	IPC	
USPC: 370/329	<b>/00</b> ( 2006.01)			
Applicant	308000 LEED			
QUALCOMM INC				
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>				
2. This F	REPORT consists of	a total of 5 sheets, inclu	ding this cover sheet	i.
3. This r	3. This report is also accompanied by ANNEXES, comprising:			
а. 🗌	sent to the applica	ent and to the Internationa	l Bureau) a total of	sheets, as follows:
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This i	eport contains indica	ations relating to the follow	ving items:	
	Box No. I B	asis of the report		
	Box No. II P	riority		
		Ion-establishment of opinio	on with regard to no	velty, inventive step and industrial
	•	ack of unity of invention		
				n regard to novelty, inventive step or ns supporting such statement
		Certain documents cited	•	
	Box No. VII C	Certain defects in the intern	ational application	
Box No. VIII Certain observations on the international application		ation		
Date of submission of the demand		Date of completion	of this report	
16 June 2005 (16.06.2005)		18 February 2006 (18	8.02.2006)	
Name and mailing address of the IPEA/ US		Authorized officer		
Mail Stop PCT, Attn: IPEA/US			1 · 4-11-	
Commissioner for Patents P.O. Box 1450			Chi Pham	Rugenio Zoga-
I .	ria, Virginia 22313-1450	*	Telephone No. 571-	272 3 79
Facsimile No. (571) 273-3201 Form PCT/IPEA/409 (cover sheet)(April 2005)				

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/38198	

Box No. I	Basis of the report
	gard to the language, this report is based on:
	e international application in the language in which it was filed.
a pu	translation of the international application into English, which is the language of a translation furnished for the urposes of:
Γ	international search (under Rules 12.3 and 23.1(b))
F	publication of the international application (under Rule 12.4(a))
	international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
L	
to the r	gard to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been furnished receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not d to this report):
⊠ tl	he international application as originally filed/furnished
₩ t	he description:
	as originally filed/furnished
ŗ	pages* NONE received by this Authority on pages* NONE received by this Authority on
F	pages* NONE received by this Authority on
⊠ t	the claims:
I	pages 34-41 as originally filed/furnished pages* NONE as amended (together with any statement) under Article 19
1	pages* NONE as amended (together with the pages) as amended (together with the pages) as amended (together with the pages) as a mended (together with the pages).
	pages* NONE received by this Authority on
, , ,	P4560
	the drawings: pages 1-10 as originally filed/furnished
·	pages* NONE received by this Authority on
	pages* NONE received by this Authority on
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to the sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	the sequence using (specify).
	any table(s) related to the sequence listing (specify):
* If iter	m 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/38198

Box No. V Reasoned statement under Ar applicability; citations and ex	ticle 35(2) with regard to novelty, inventive step or industrial planations supporting such statement	l 
1. Statement		
Novelty (N)	Claims 4-8, 10-19, 21-24, 26-29, 31-36, and 38-45	YES
Novelty (N)	Claims 1-3, 9, 20, 25, 30, and 37	NO
- 4 0 (10)	Claims 4-8, 10-19, 21-24, 26-29, 31-36, and 38-45	YES
Inventive Step (IS)	Claims 1-3, 9, 20, 25, 30, and 37	NO
(7.1)	Claims <u>1-45</u>	YES
Industrial Applicability (IA)	Claims NONE	NO
2. Citations and Explanations (Rule 70.7)		

2. Citations and Explanations (Rule 70.7) Please See Continuation Sheet

Form PCT/IPEA/409 (Box No. V) (April 2005)

#### , INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/38198

S	upplemental Box
	In case the space in any of the preceding boxes is not sufficient.
	Continuation of:
	V. 2. Citations and Explanations: Claims 1-3, 9, 20, 25, 30 and 37 lack novelty under PCT Article 33(2) as being anticipated by Zhang, H. et al (WO 03/010984 A1). Hereinafter, referred to as Zhang.
	With respect to claims 1, 20, and 30, Zhang discloses a method for processing information in a communication system (Fig. 2), comprising:
	partitioning a control channel (Fig. 2, F-CPCCH) used for transmitting control information into a plurality of subchannels, each subchannel being operated at a specific data rate (Fig. 2, F-CPCCH, bit 12 operates at ¼ full rate);
	selecting, for each of one or more user terminals, one of the subchannels to be used for transmitting control information from an access point to the respective user terminal, based on one or more selection criteria (Figs. 3-5, selected subchannels with data rate of 1, 1/4, 1/8, point to the respective user terminal, based on one or more selection criteria (Figs. 3-5, selected subchannels with data rate of 1, 1/4, 1/8, point to the respective user terminals are in active state or control hold state); and

With respect to claim 2, Zhang discloses that wherein control information is transmitted in a segment of data frame specifically allocated for the control channel (Fig. 2, F-CPCCH, time slots 1 or 5).

transmitting control information from the access point to a particular user terminal on a particular subchannel selected for the respective

With respect to claim 3, Zhang discloses that wherein each subchannel is associated with a specific set of operating parameters (Fig. 2, F-CPCCH, time slots 1 and 5 are used).

user terminal (Fig. 2, F-CPCCH, power control bit 12th).

or both depending whether the terminals are in active state or control hold state); and

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:	Supplemental Box
_	With respect to claims 9, 25, and 37, Zhang discloses a method for processing information in a communication system (Fig. 2), comprising:
	segregating a control channel into a plurality of subchannels each of which being operable at a specific data rate (Fig. 2, F-CPCCH, bit 12 operates at ¼ full rate);
	transmitting control information including resource allocation information from an access point to a user terminal on particular subchannel of the plurality of subchannels selected for the user terminal, based on one or more selection criteria (Fig. 2, F-CPCCH, power control information transmitted in bit 12 <sup>th</sup> of time slots 1 and 5, ½ full date rate to terminals having control hold state); and
	decoding, at the user terminal, one or more subchannels of the plurality of subchannels to obtain control information designated for the user terminal (page 13, lines 23-25, the MS in the control hold state monitors only these bits of the reduced rate power control subchannel assigned to it).
	Claims 4-8, 10-19, 21-24, 26-29, 31-36 and 38-45 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a decoder to decode one or more control subchannels to obtain control information designated for a particular user terminal, starting with a subchannel operated at a lowest data rate, until at least one of a plurality of conditions is met, as specified in independent claims 34, 40, and 43.
	Claims 1-45 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the claimed subject matter can be made or used in industry.
	NEW CITATIONS
	NONE